

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Answer Key: Build a Tiny Treehouse: 1st Grade Cell Parts Quiz

Identify how cell parts act like a busy construction site to help living things grow and stay healthy.

---

**1. Imagine the cell is like a castle. Which part acts like the big stone wall that decides who can come inside?**

**Answer:** A) The Cell Membrane

The cell membrane is like a security guard or a wall; it protects the cell and controls what enters and exits.

**2. The nucleus is like the 'brain' of the cell because it tells the other parts what to do.**

**Answer:** A) True

True! The nucleus holds the instructions (DNA) and manages everything happening inside the cell.

**3. Small parts called \_\_\_\_\_ work like tiny machines to build proteins that help your body grow.**

**Answer:** B) Ribosomes

Ribosomes are the 'builders' of the cell. They make proteins, which are the building blocks for our bodies.

**4. If a cell was a toy car, which part would be the battery that gives it power to move?**

**Answer:** C) The Mitochondria

Mitochondria are the 'powerhouses' because they turn food into energy that the cell can use.

**5. A cell uses its Golgi apparatus to throw away all its energy.**

**Answer:** B) False

False. The Golgi apparatus is more like a post office; it packages and sends materials to the right places.

**6. The \_\_\_\_\_ help the cell stay clean by breaking down waste, just like a recycling truck.**

**Answer:** A) Lysosomes

Lysosomes contain enzymes that digest waste and old cell parts to keep the cell healthy.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**7. When a skin cell makes a copy of itself to heal a scraped knee, which part is leading the way?**

**Answer:** C) The Nucleus

The nucleus controls reproduction (making new cells) so your body can grow and heal injuries.

**8. The ER (Endoplasmic Reticulum) is like a \_\_\_\_\_ that carries materials from one place to another.**

**Answer:** B) Highway

The ER acts as a transport system or highway, moving proteins and other items around the cell.

**9. Cells can 'breathe' and get energy using their mitochondria.**

**Answer:** A) True

True! This process is called respiration, and it's how cells get the energy they need to stay alive.

**10. What would happen to a cell if its powerhouses (mitochondria) stopped working?**

**Answer:** D) It would run out of energy

Without mitochondria, the cell wouldn't have the energy to move, grow, or do its job.